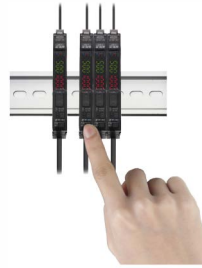


High performance high-precision dual digit display fiber optic sensors FX-520 series



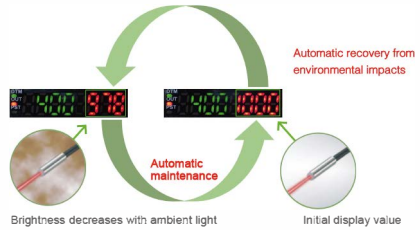
One-touch setting, simple and convenient debugging

Just one click calibrates the sensitivity and resets the display.



DATUM automatic maintenance function

The automatic maintenance function eliminates the influence of the surrounding environment, automatically detects the brightness and restores the sensor to its original display state, and continues to perform high-precision testing.

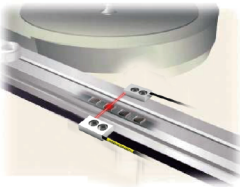


MEAG power switchable

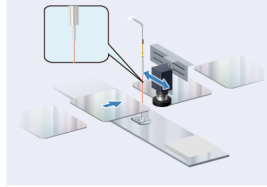
Easy to switch between standard and high power with a simple operation.



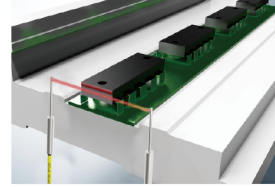
Application



High flexible type, exceeding 50 million times



Solar cell wafer inspection



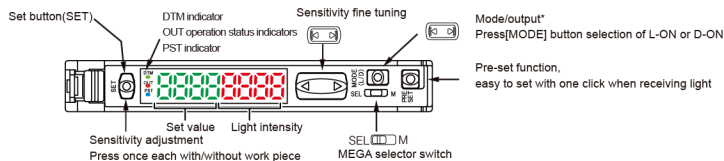
Detecting the presence or absence of chip pin

Specs

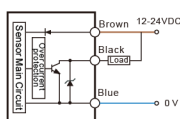
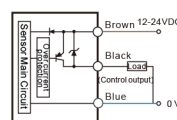
Amplifiers

Type	Cable type	
Model	FX-520N	FX-520P
Output type	NPN	PNP
Light source	Red light emitting diode LED body	
Response time	100μs (HIGH SPEED) /250μs (FINE) /1ms (TURBO) 16ms (MEGA)	
Output selection	LIGHT-ON/DARK-ON (switch option)	
Detection method	Light intensity (area detection, automatic sensitivity tracking function)	
Delay function	OFF delay timer/ON delay timer/single timer/on delay single timer, selectable timer duration selectable: 0.1ms to 9.999ms, accuracy range ±10% of set value.	
Control output	NPN open collector 24V, max 100mA, residual voltage: max 1V PNP open collector 24V, max. 100mA, residual voltage: max. 1V	
Power voltage	Between 12 to 24VDC±10%, ripple voltage (P-P): 10% max	
Current consumption	Maximum 750mW (Maximum current 24V: 31mA; Maximum current 12V: 40mA) Power Saving Mode: Maximum 580mW (Maximum current: 24V: 24mA; Maximum current 12V: 28mA) Note: When using the "High Speed" mode, the power consumption will be increased by 160mW (7mA).	
Ambient light	Incandescent: 20,000lux max, daylight : 30, 000lux max	
Ambient temperature	-10 to +55°C, no condensation	
Relative humidity	35 to +85%, no condensation	
Vibration resistance	10 to 55Hz, 1.5mm double amplitude, 2 hours each in X/Y/Z direction.	
Shock resistance	500m/S ² in X, Y and Z direction, 3 times each	
Case material	PC	
Dimensions	30.3mm(height)×9.8mm(width)×71.8mm(depth)	
Cable length	2m	
Weight	Approx.80g	

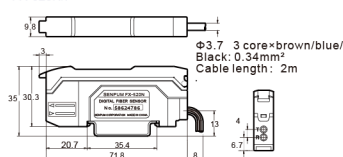
Key/Display Description



I/O Circuit Connection Diagram

NPN
FX-520NPNP
FX-520P

FX-520N/P



(Unit: mm)

Fiber Optic Sensors

SP
P-20/40
SP2
FX-N10
FX-520
FX-525
FX-620

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Inductive Proximity Sensors

Precision Contact Sensors

Area/Safety Light Curtain

Laser Scanners

Digital Contact Sensors

Laser Displacement Sensors

Distance Laser Sensors

Confocal Displacement Sensors

Barcode Scanners

Infrared Temperature Sensors

Digital Pressure Sensors

Gate Magnetic Sensors

Ultrasonic Displacement Sensors

Magnetic Scale

Static Eliminators



SEN-PUM

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